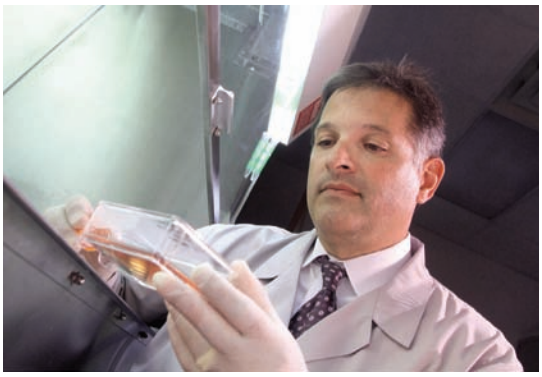
2011 Annual Report | Department of Obstetrics and Gynecology



NorthShore
University HealthSystem

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Mission Statement | Department of Obstetrics and Gynecology

We provide outstanding obstetric and gynecologic care for women across the life stages through clinical care, academic training and innovative research, supporting the NorthShore University HealthSystem mission “to preserve and improve human life.”

"The NorthShore University HealthSystem (NorthShore) Department of Obstetrics and Gynecology provides expertise and focus on women's health issues. As a key department in a fully integrated health system with four hospitals and more than 2,400 physicians, we are simultaneously proud of our accomplishments and humbled at our high calling to care for women and their unborn infants. We are pleased to provide an overview in this Annual Report of our clinical services, research portfolio, faculty endeavors and programmatic initiatives in 2011 as we serve women across all generations."

Richard K. Silver, MD
Chairman and Clinical Professor

Clinical Care

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Obstetrics

2011 Highlights

- In the spirit of excellence to best serve our patients and referring physicians, we continue to look for ways to improve our track record of providing leading-edge services for the most timely and efficient patient care performed in NorthShore's Labor and Delivery units.

- Our ongoing and successful multidisciplinary partnership with NorthShore's Quality Department allows us to continue an important initiative to use "lean" manufacturing processes to analyze and then optimize workflows in order to minimize waste and maximize efficiency and safety.

- Facilitated by NorthShore's Nursing and Quality Departments, a multidisciplinary team has met and made recommendations for improvements in workflow. We are now in a data-gathering phase prior to a second round of process improvements.

Emmet Hirsch, MD

Vice Chair for Faculty Development and Clinical Practice, Division Director and Clinical Professor

Clinical Mission and Services

The Division of Obstetrics exists to preserve and advance the health of pregnant women through activity in three interrelated spheres. The first is providing excellent care to pregnant, laboring and postpartum women and their infants. Next is creating a learning environment with first-rate educational opportunities for students, residents and fellows. Our third sphere is to expand the body of knowledge in women's health through original research and clinical trials.

2011 Achievements

- Clinical outcomes in Obstetrics at NorthShore continue to rank favorably compared to similar institutions across the country. The table below presents the latest 12-month data compiled by the National Perinatal Information Center (NPIC), in which NorthShore is compared to other institutions in Subgroup AR (academic regional perinatal centers) and to the entire database (including all types of hospitals). In particular, the lower rates of cesarean section and higher rates of vaginal birth after cesarean (VBAC) reflect a significantly positive impact on patient health at NorthShore.

- Several multidisciplinary committees use dynamic processes to develop protocols and best practices on behalf of the division. Activities in the division occur within the framework of our multidisciplinary and collaborative culture. Active participants include Nursing, Nurse Midwifery, Family Medicine, Anesthesia, Obstetrics, Urogynecology and, where necessary, Gynecologic Oncology. In 2011, the committees that follow completed projects addressing OB hemorrhage education and training; development of protocols for tracking outcomes, review and systems improvement; creation of an emergency documentation worksheet; standardization of clinical notes; and the continued development of a robust set of indicators to inform clinical review:
  - **The Obstetrics Practice Committee** reviews and publishes practice guidelines for the Division of Obstetrics.
  - **The Perinatal Morbidity and Mortality Committee** meets monthly at NorthShore Evanston Hospital and quarterly at NorthShore Highland Park Hospital to review challenging clinical scenarios.
  - **The Obstetrical Clinical Outcomes Committee** is a multidisciplinary group meeting bimonthly to review quality data.
  - **The OB Safety Committee** effectively addresses topics vital to the clinical efficacy of our OB staff.

Obstetrics 2011 Clinical Outcomes

	NorthShore	Subgroup AR Average	Entire NPIC Database Avg
Number of deliveries	**4,457**	4,122	4,399
Total C/S rate (% of all deliveries)	**29.3**	32.5	35.3
Vaginal birth after cesarean, % (Number of successful births divided by number with prior uterine scar)	**20.8**	15.9	11.2
Postpartum readmission rate, %	**0.8**	1.1	0.9
Disruption or infection of obstetrical wound, %	**0.5**	0.6	0.4
Anesthesia complication rate, %	**0.00**	0.00	0.00
Total inborn birth trauma rate, %	**1.3**	2.8	2.7

Frank Tu, MD, MPH, trains resident physicians and medical students using simulation technology.

Education through Simulation: The Key to Reducing Risk and Improving Outcomes

Simulation in obstetrical safety initiatives and in medical education has emerged as a best practice within the Obstetrics Division. Under the leadership of Ian Grable, MD, MPH, with the assistance of Heather Straub, MD, we have identified clinical scenarios and procedures amenable to group and individual simulation training. These interactive sessions are designed to further enhance the safe environment in which we care for our patients.

In 2011, we deployed focused initiatives involving residents, nurses and attending physicians, including procedure-based learning for the following:

- Operative vaginal delivery
- Control of obstetrical hemorrhage
- Resolution of shoulder dystocia
- Treatment of postpartum eclampsia
- Placement of cervical cerclage

As a unique learning strategy, we include participants in the design of the activities as well as in their execution. This keeps the learners well engaged, making the simulated experiences as realistic as possible to maximize the training benefits. Whether using expensive technology, like the fully automated maternity manikin "Noelle" to help with the shoulder dystocia drill, or inexpensive materials to simulate a dilated cervix requiring cerclage placement, the goal always remains the same: to achieve the highest quality simulation experience within a clinical scenario in a safe and reproducible manner. The knowledge and confidence gained through the simulation education are directly transferrable to the patient bedside.

Ian Grable, MD, MPH, provides leadership in simulation.

Gynecology

2011 Highlights

- NorthShore's gynecological training rotations received high marks from the residents and medical students at the University of Chicago Pritzker School of Medicine. Dozens of faculty members have been recognized for their superior contribution to the teaching mission. NorthShore essentially doubled the residents' surgical experience available for learning and increased the breadth and depth of case exposure. The gynecology clinic proved invaluable to the residents' learning experience, with a dedicated group of attending physicians overseeing their training.
- In addition to our regularly scheduled preoperative conferences, we have launched an educational initiative employing our newly opened simulation laboratory, known as the NorthShore Center for Simulation and Innovation (NCSI). Residents, students and attending staff have access to the latest and most sophisticated surgical equipment, which they can learn to use effectively in a safe laboratory environment. All of the newest endoscopic instruments are available for their use. Additionally, we are using this venue to practice simulated clinical scenarios. One afternoon each week is devoted to this activity with special skills training at the start of each academic year.

Kenneth Nelson, MD
Vice Chair of Quality, Division Director and Clinical Associate Professor

Clinical Mission and Services

The Division of Gynecology includes all of our department's specialists and encompasses the disciplines of office practice, adolescent gynecology, and contraceptive and family planning services, as well as surgical procedures in both outpatient and inpatient settings. The division recognizes that gynecologic surgery in particular is an iterative area within our specialty. As such, members are committed to lifelong and collaborative learning for the benefit of our patients. Our division's collegial culture is manifested by preceptor programs in which more experienced department members proctor others in order to elevate the quality and procedure-related expertise across the division. We have employed all of the latest technologies, including robotics, to bring state-of-the-art care to the community of patients we serve. We are committed to providing this quality care in an atmosphere of safety, support, cost-effectiveness and partnership with all of our patients.

2011 Achievements

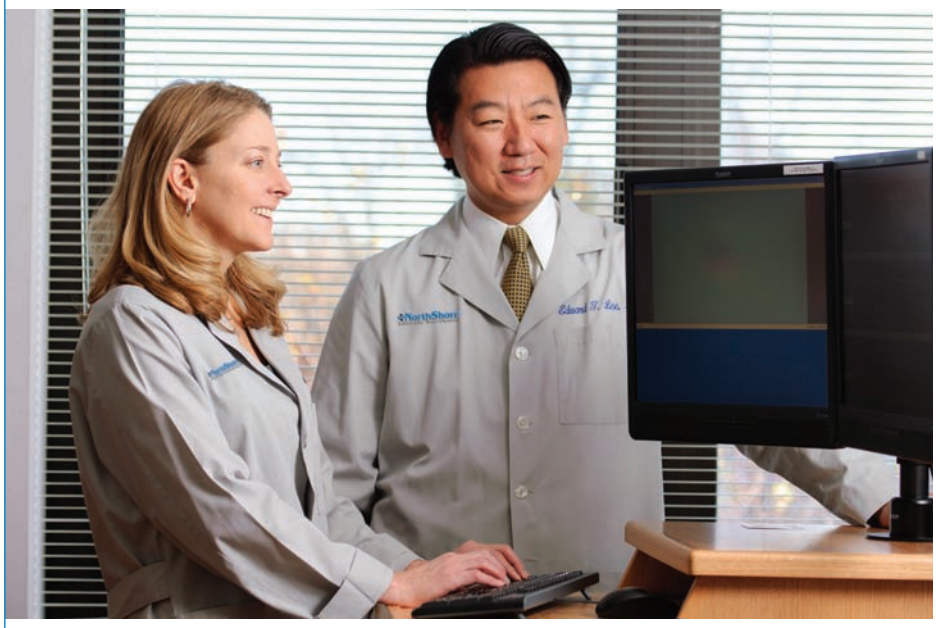
- While hysteroscopy, endometrial ablation and hysteroscopic tubal occlusion have moved largely into the office setting, our surgical volume remains strong. We performed more than 3,500 cases across our four pavilions. Our outpatient gynecology clinic continues to enjoy growth in patient volume resulting in an important and measurable service to the underserved patient population in our community, as well as a solid learning experience for our house staff.
- As mentioned in our Highlights, NorthShore's gynecological training rotations received high marks from the University of Chicago Pritzker School of Medicine residents and medical students. The gynecology clinic learning experience has been enhanced by a regularly scheduled preoperative conference where patients' cases are presented. This allows review of indications and preoperative evaluation, discussion of management of co-morbidities and exploration of alternative surgical approaches.

Surgical Care Improvement Project (SCIP)

NorthShore 2011 Performance Results

Evidence-Based Practice	Goal	All Cases FY 2010	All Cases FY 2011	General Gynecology FY 2011
SCIP1 (Abx received within 1 hour prior to incision)	98.2%	98.9%	98.9%	100.0%
SCIP2 (Appropriate abx selection)	99.3%	93.0%	97.7%	99.4%
SCIP3 (Abx discontinued within 24 hours of surgery end time)	96.7%	98.9%	100.0%	100.0%
SCIP CARD 2 (Beta blocker on admission and received periop)	98.9%	100.0%	99.6%	100.0%
SCIP VTE 1 (VTE prophylaxis ordered)	98.0%	99.3%	97.2%	100.0%
SCIP VTE 2 (VTE received within 24 hours of surgery and time)	97.0%	99.1%	97.4%	100.0%

- The multidisciplinary Gynecologic Morbidity and Mortality Committee has fully developed the process of case identification, review and resolution. This committee reviewed clinical encounters that warranted additional evaluation, which uncovered targeted educational opportunities. Results of these reviews included the committee recommending an educational initiative for medical record documentation. A Grand Rounds was held, and recommendations for optimum documentation in Electronic Medical Record (EMR) system were reviewed. Ongoing emphasis has been placed on documentation with several individual and group counseling sessions.
- Our statistics for 2011 reveal a complication rate of only 1 percent across all gynecological surgical services (general gynecology, gynecologic oncology, urogynecology and minimally invasive gynecology) and for all complications (deep venous thromboembolism, pulmonary embolism, surgical site infections, organ injury and readmission within 30 days) and no mortalities. This was accomplished with an average length of stay of only 1.4 days across the entire enterprise.
- For the full year in 2011, NorthShore Gynecology has performed exceptionally well in compliance with the Centers for Medicare & Medicaid Services (CMS) Surgical Care Improvement Project (SCIP) performance measures. Collectively, our gynecological surgeons outperformed five of the six SCIP goals for safe, high-quality surgery. (See the table titled "Surgical Care Improvement Project (SCIP)—NorthShore 2011 Performance Results.") Our Hospital Consumer Assessment of Healthcare Providers and Systems patient loyalty evaluations demonstrated marked improvement over our initial excellent scores such that we have well exceeded national benchmarks in all areas for the fourth quarter—more than 9 out of 10 of our patients would recommend us for gynecologic care.
- With the NorthShore Quality Department, we have developed a physician scorecard. Each scorecard includes data on surgical volume, average length of stay, mortalities, complications, readmissions, cost per case, case medical index, cases reviewed by the Morbidity and Mortality Committee, and cases referred for counseling. Blinded data are distributed to all division members enabling each surgeon to gauge individual performance relative to his or her peer group.



NorthShore Medical Group physicians, Susan Kramer, MD, and Edward Lee, MD, use leading-edge fetal monitor technology to observe the progress of labor and delivery patients at different areas within their unit.

Maternal-Fetal Medicine

2011 Highlights

- To further reinforce our commitment to improve quality care and patient safety, the Division of Maternal-Fetal Medicine has developed a curriculum for simulation training for physicians, fellows, residents and students at the NorthShore Center for Simulation and Innovation (NCSI).
- Our commitment to quality improvement extends to our educational programs and research output. NorthShore has become the primary site for the University of Chicago Maternal-Fetal Medicine Fellowship training program under the direction of Richard Silver, MD, and David Ouyang, MD. The three fellows—Anna Gonzalez, MD, Heather Straub, MD, and Ankit Shah, MD—are actively involved in our clinical services and research activities.

Scott MacGregor, DO
Vice Chair for Specialty Care, Division Director and Clinical Professor

Clinical Mission and Services

The Division of Maternal-Fetal Medicine (MFM) continued its commitment to quality improvement in clinical services, research activities and educational opportunities in 2011. Our clinical programs have focused on service excellence and timely consultation to our patients and referring physicians. Our group's primary clinical site is NorthShore Evanston Hospital, with services also provided at eight other Fetal Diagnostic Center (FDC) sites: the Center for Maternal and Fetal Health at NorthShore Glenbrook Hospital and NorthShore Highland Park hospitals, as well as area locations at Lake Forest, Saint Francis, Northwest Community, Condell and Swedish Covenant hospitals. There is also a location in Gurnee to provide additional services in Lake County.

The division is composed of nine board-certified specialists. Our division includes Division Director Scott MacGregor, DO, and Richard Silver, MD, Mark Neerhof, DO, Mara Dinsmoor, MD, Ian Grable, MD, Loraine Endres, MD, David Ouyang, MD, Beth Plunkett, MD, and Amanda Horton, MD. In addition, staffing includes five genetic counselors, four MFM and four FDC nurses, four research nurses, a nurse assistant, 11 ultrasonographers, and supportive clerical and billing staffs. We also have a prenatal dietician and certified diabetic educator to assist our patients, particularly those with diabetes or multiple gestations.

The Center for Maternal and Fetal Health (CMFH) consolidates the services of the Division of Maternal-Fetal Medicine and the Fetal Diagnostic Centers. The CMFH offers the newest technology and services. In the past year, the FDC provided more than 30,000 patient visits. Our ultrasonographers maintain certification in first trimester genetic screening (both nuchal translucency and nasal bone assessment). Our center continues to be one of the leaders in first-trimester screening for fetal aneuploidy. We are one of the only centers in the area to offer evaluation of the fetal nasal bone as a routine component to aneuploidy screening, which increases the detection rate of chromosome abnormalities.

2011 Achievements

- Our FDCs maintain American Institute of Ultrasound in Medicine (AIUM) certification. They are interconnected through the image archiving system and Electronic Medical Record (EMR) system. We have upgraded the image archiving system, which improves communication of results to referring physicians and connectivity with the EMR system.
- MFM uses the EMR system to improve the quality of patient care. The EMR system has been used to develop a systematic approach to patient and physician communication, as well as record review. The ability to access the EMR system through any Internet connection ensures that the patient's record is always available. The EMR system also allows patients to access their record and laboratory tests from their home computer through NorthShore*Connect*.
- The division has developed a curriculum for simulation training for physicians, fellows, residents and students at the NorthShore Center for Simulation and Innovation (NCSI). The program and curriculum in Obstetrics are under the direction of Dr. Ian Grable. This program, as well as the previously introduced Safer Healthcare program to improve patient safety in labor and delivery, underscores the commitment to improve quality care and patient safety.

Scott MacGregor, DO, Vice Chair for Specialty Care, Division Director and Clinical Professor

- In addition to the fellowship program, our division also provides education opportunities for medical students and residents, as well as referring physicians and nursing staff. The MFM staff participates in student lectures, four weekly educational conferences for students and residents, fellow lectures and supervises two high-risk obstetric clinics weekly at the Evanston campus.
- Educational opportunities are provided by the division within the Perinatal network under the organization of Myra Sabini, RN, Perinatal Center Coordinator. MFM physicians regularly attend department meetings at our network hospitals and provide quarterly Morbidity and Mortality conferences at each of the hospitals in the network. In addition, the network hospitals receive lectures and educational materials for both physicians and nurses.
- Our division continues its commitment to clinical and laboratory research, and a number of new projects have been developed. The division currently has more than 10 active, IRB-approved clinical trials. These research efforts have resulted in numerous presentations at leading scientific research meetings and numerous publications in leading peer-reviewed journals. In addition, our division has begun to collaborate with the department at the University of Chicago with approved research trials.
- We are one of only 14 clinical trial centers of the National Institute of Child Health and Human Development MFM Unit Network. This MFM Unit participation allows our patients access to the most innovative and important clinical trials. Recently completed studies have included thyroid replacement therapy for subclinical hypothyroidism to improve fetal brain development, use of progesterone to reduce preterm delivery in patients with shortened cervix on ultrasound evaluation and an observational cohort study to evaluate measures of quality of obstetric care. A randomized placebo-controlled trial of antenatal late preterm steroids is under way.
- Larry Thaete, PhD, and Mark Neerhof, DO, continue their basic science research. Their research is collaborative and involves evaluating the role of vasoactive mediators in fetal growth restriction. It is anticipated that their research efforts will translate into improved quality of patient care in the coming years. Beth Plunkett, MD, MPH, also has received funding for her research, “A Dietary and Behavioral Intervention to Reduce Weight Gain in Obese Pregnant Women” and “Maternal Adiposity as a Regulator of Fetal Growth and In Utero Programming of Fetal Adipocytes” from the NorthShore University HealthSystem Research Institute.
- The Perinatal Research Group at NorthShore also continues its productive pace. The clinical and laboratory research of the division has resulted in presentations at leading scientific research meetings during the past year and numerous publications in leading peer-reviewed journals.

Gynecologic Oncology

2011 Highlights

- Jean Hurteau, MD, was invited to serve on the Program Committee for the upcoming 2012 Society of Gynecologic Oncologists Meeting. He has also actively served the Society for Gynecological Oncologists regionally and nationally, specifically as a member of the Education Committee to help educate physicians and women on the issues of gynecological cancers.
- Dr. Rodriguez was an invited speaker at an ovarian cancer survivors' course held at Northwestern University.
- The division held a "town hall" meeting at Evanston Hospital to discuss recent advances in the biology, screening, prevention and treatment of gynecologic malignancies.
- Dr. Rodriguez received the Stephen A. Weisman, MD, Humanitarian Award for Cancer Care. Presented annually by the Cancer Wellness Center, Northbrook, Illinois, the award honors a physician whose medical accomplishments and dedication to the well-being of patients living with cancer exemplify the humanity and life work of Dr. Weisman.
- Dr. Kirschner went to Guatemala in August with Partners for Surgery and medical students. She taught local health care workers the technique of VIA (visual inspection with acetic acid), colposcopy and cryotherapy with the goal of lessening the risks of cervical cancer in an under-resourced setting.

Kerry Swenson, MD, PhD, teaching in Colposcopy Clinic.

Gustavo Rodriguez, MD
Division Director and Clinical Associate Professor

Clinical Mission and Services

The Division of Gynecologic Oncology is committed to a multidisciplinary approach to treating women with malignant or premalignant conditions of the gynecologic tract. Our mission is to provide comprehensive and compassionate care for our patients while performing basic and clinical research that will make a significant impact in our community and beyond.

2011 Achievements

- The Division of Gynecologic Oncology continues to be recognized for outstanding patient loyalty, ranking very favorably for quality of care compared to the top practices nationally and within the NorthShore Medical Group.
- The NorthShore gynecologic oncology robotics program has become fully established for the surgical staging of endometrial cancer under the leadership of Carolyn Kirschner, MD. The division has now performed more than 140 robotic cases. Outcomes have been excellent. Similar to the published experience with the robot, few cases have required conversion to laparotomy, and perioperative outcomes include
shorter hospitalizations and faster recovery.
- Work has continued under a multimillion-dollar award granted to the division for studies related to prevention of endometrial cancer and ovarian cancer. These studies are being spearheaded by Gustavo Rodriguez, MD, and his laboratory team and include collaborations with scientists at Harvard, University of Chicago, University of Pittsburgh and The National Cancer Institute.
- Under Dr. Rodriguez's leadership as principal investigator, enrollment is more than 80 percent complete in Gynecologic Oncology Group Protocol 214. This combined clinical and laboratory study evaluates the ovarian cancer preventive effects of progestin in women at high risk of ovarian cancer.
- The division has now recruited three fellows into their recently awarded combined gynecologic oncology fellowship with the University of Chicago. Dr. Hurteau is site director of the fellowship program at NorthShore working in collaboration with the University of Chicago program director, Diane Yamada, MD.
- Larry Thaete, PhD, an excellent laboratory scientist with a long and successful track record of federal funding in our department, has now been asked to oversee the gynecologic oncology basic science laboratory.
- Dr. Kirschner and her family have continued their outstanding mission efforts in Nigeria, with the goal of serving women with the debilitating complication of vesicovaginal fistula.
- Dr. Rodriguez was awarded a $100,000 grant from Bears Care to support research related to ovarian cancer prevention. In addition, the NorthShore Auxiliary selected Dr. Rodriguez's work to establish a Clinical Gynecologic Cancer Prevention Program at NorthShore as the recipient of proceeds from their annual American Craft Exposition, one of America's premier craft shows. The program will seek to screen women in our community for ovarian and endometrial cancer risk and implement tailored strategies to mitigate risk.
- Dr. Rodriguez received the Pritzker Pin for medical student Teaching Excellence from the University of Chicago.

Reproductive Endocrinology and Infertility

2011 Highlights

- Dr. Rinehart presented at the American Society for Reproductive Medicine annual meeting in Orlando in October for a session addressing "Confronting and solving legal issues within assisted reproductive technologies within ART: A practical approach." Dr. Reinhart discussed "informed consent" and "complex legal issues in reproductive medicine."

John Rinehart, MD, PhD, JD, Division Director and Senior Clinician Educator

John Rinehart, MD, PhD, JD
Division Director and Senior Clinician Educator

Clinical Mission and Services

The Division of Reproductive Endocrinology and Infertility (REI) is composed of 12 highly trained physicians qualified to meet the clinical needs of women and men who struggle with reproductive challenges. The division is dedicated to obtaining the best possible outcomes using the latest technology and is committed to advancing the art and science of the subspecialty through research and education.

2011 Achievements

- Evolving technology in REI has vastly increased the treatment options available to patients and general gynecologists and supports it as a highly technical, office-based specialty.
- The REI specialists based at NorthShore Highland Park Hospital, under the direction of Edward Marut, MD, performed more than 1,400 egg retrievals, 600 frozen embryo transfers and 200 cases using pre-implantation genetic testing in 2011. This advanced testing includes pre-implantation genetic screening for chromosomal abnormalities, as well as pre-implantation genetic diagnosis, which detects single-gene mutations. Trophectoderm biopsy is also used to improve the accuracy and outcomes from pre-implantation genetic testing.
- The division is actively involved with education for medical students and residents. Eve Feinberg, MD, in Highland Park and Dr. Rinehart in Evanston have invited third-year medical students into their offices to experience the clinical setting of busy REI practices. REI faculty participates in the resident education program and continues to present quarterly Grand Rounds. Dr. Rinehart continues to be involved with the REI training for the Saint Francis residents by giving weekly didactic lectures and by having third-year residents rotate through his practice.
- Dr. Rinehart completed another year of active participation in the Department Executive Committee and the NorthShore Institutional Ethics Committee (IEC). In 2011, he also became a member of the Institution Review Board, which oversees research performed at NorthShore. Because reproductive medicine has consistently been at the forefront of medical ethics, Dr. Rinehart's experience is extremely valuable to the IEC.
- Dr. Rinehart was appointed to the Illinois State Bar Association Committee on Health Care Education.

Anthony Cirrincione, MD, Senior Clinician Educator is working with University of Chicago resident, Sarah Conduit-Hulbert, MD, preparing for a simulation exercise by reviewing a stepwise approach to a complex obstetrical emergency.

Simulation Experiences Give Residents Distinctive Edge

Challenged with the steep learning curve associated with minimally invasive surgery, physicians dissect the relevant steps needed to develop their expert skills. For example, through the use of a high-fidelity artificial pelvis, residents can hone their skills in laparoscopy. With the aid of an inanimate uterine model and cellophane wrap, a challenging hysteroscopic resection can be repeated until mastered. In addition, endoscopic suturing within a simulated abdominal cavity can be perfected—and hysteroscopic tubal sterilization can be learned and repeated to ensure proficiency.

This year we received high marks from our resident physicians who were very appreciative of these experiences and for all the work they do alongside our attending staff in the operating room. In fact, during interview sessions last fall, this aspect of our learning environment received tremendous attention from resident applicants in the University of Chicago-NorthShore program. Having multiple faculty members with expertise in simulation education who are willing to commit their time sets us apart from other clinical departments.

Gynecological Pain and Minimally Invasive Surgery

2011 Highlights

- Sangeeta Senapati, MD, MS, received a NorthShore Research Career Development Award, which she is using to conduct a multisite clinical trial on vasopressin to reduce blood loss at time of laparoscopic myomectomy in conjunction with Brigham and Women's Hospital, Cedars-Sinai and other sites.
- Dr. Frank Tu served as secretary for both the International Pelvic Pain Society (IPPS) and the International Association for the Study of Pain's special interest group on Pain of Urogenital Origin. He co-chaired the IPPS' meetings in Istanbul and Las Vegas.
- Howard Topel, MD, continues to represent the department in the NorthShore Practice-Based Research Network and is shepherding the initiation of two pilot projects. He continues to conduct operative hysteroscopic training for community clinicians in conjunction with Smith & Nephew.
- Kevin Hellman, PhD, is a recently recruited neurobiologist from the University of Chicago. He has initiated the division's preclinical basic science studies, and several projects have yielded data supporting federal grant submissions. He and Dr. Tu co-authored a review on neuropathic pain in the *American Journal of Obstetrics and Gynecology*.

Frank Tu, MD, MPH
Division Director and Clinical Assistant Professor

Clinical Mission and Services

The Division of Gynecological Pain and Minimally Invasive Surgery (GPMIS) brings the skills and experience of subspecialists in female pelvic pain disorders and laparoscopic surgery to the NorthShore clinical, academic and research community.

2011 Achievements

- GPMIS continues to grow with a 5 percent increase in clinical services provided at both of our sites in the last fiscal year. Both the Highland Park and Skokie Hospitals' Pelvic Health Centers are available for clinical services.
- Frank Tu, MD, MPH, Sally Jensen, PhD, and Tina Gremore, PhD, from the NorthShore Department of Psychiatry, have completed enrollment on two NorthShore-supported clinical studies, one on mindfulness and chronic pain, and the other on the role of stress in hysterectomy perioperative outcomes.
- The division hosted an endoscopic skills lab for our University of Chicago Pritzker School of Medicine residents in April at the NorthShore Center for Simulation and Innovation (NCSI), and has been developing novel models for simulating the laparoscopic pelvic environment.
- GPMIS continues to be closely aligned with the two NorthShore Pelvic Health Centers on the Skokie and Highland Park campuses—hosting a uniquely integrated complement of subspecialists collaborating to provide coordinated services related to women's health issues. In particular, the Division has been actively developing a program that addressing advanced endometriosis cases, such as bladder and bowel invasion in women desiring fertility preservation.

From left, Frank Tu, MD, MPH, Sangeeta Senapati, MD, MS, and Howard Topel, MD, made great strides in 2011 in the NorthShore Center for Simulation and Innovation, where they help train resident physicians using the leading-edge simulation technology.

Urogynecology and Reconstructive Surgery

2011 Highlights

- 2011 represented another productive year for the Division of Urogynecology, both academically and clinically. In addition to the division's established presence in Evanston, Highland Park, Skokie and Vernon Hills, a brand-new office was opened at NorthShore Glenbrook Hospital in order to provide convenient services across the entire NorthShore geography.
- Sylvia Botros, MD, MS, assumed the role of Fellowship Director for one of the nation's oldest and most well-established fellowship training programs in urogynecology. Dr. Goldberg assumed the role of Division Director in the second half of 2011, as Peter Sand, MD began to provide greater engagement in directing research activities and also played a leading role in the division's expanded presence in northern Lake County.
- Janet Tomezsko, MD, has fully integrated her practice in the division and gave five presentations as a featured speaker at the 20th Annual Reconstructive Pelvic Surgery Conference in California.

Roger Goldberg, MD, MPH
Division Director and Clinical Associate Professor

2011 Achievements

- The Division of Urogynecology continues to represent one of the nation's most highly regarded centers for female pelvic health. Through the Pelvic Health Centers, which are located on both the NorthShore Highland Park and Skokie campuses, the division works in an integrated fashion with the full spectrum of other specialists contributing to pelvic wellness, including gastroenterology, colorectal surgery, pelvic pain and physical therapy specialists. Collaborative patient discussions are held at a monthly interdisciplinary meeting, providing one of the nation's most comprehensive and integrated therapeutic environments for these complex women's health conditions.
- The division remains one of the world's leading centers of innovation in this women's health specialty. In 2011, dozens of surgeons from across the U.S. and from around the world—including Australia, New Zealand, Japan and Europe—visited the division and attended their surgical procedures to learn novel techniques that have been pioneered by NorthShore's urogynecologists, including uterine-sparing prolapse surgery.
- Additionally, the division was one of the nation's most active in the research of Botox for urinary disorders, participating in the pivotal studies leading to recent FDA approval for the treatment of neurogenic bladder.
- Each physician in the Urogynecology Division continues to hold leadership positions on various levels. Dr. Sand completed his term as president of the International Urogynecological Association (IUGA) and assumed the role of past president; he remains active in a variety of international development projects for that organization. Dr. Botros has deepened her involvement in IUGA, helping to organize and conduct an educational mission in Kazakhstan. Janet Tomezsko, MD, currently serves as president of the Chicago Urogynecology Society, and Dr. Goldberg continues to serve as Chair of the Heath Care Policy Committee, for the American Urogynecology Society.
- The Division of Urogynecology welcomed our newest fellow in Female Pelvic Medicine, Kelly Jirschele, DO, whose prior training included an OB-GYN residency at Saint Joseph's Hospital in Chicago. We have been delighted to have her join the division to round out the fellowship class. The division partnered with the University of Chicago Pritzker School of Medicine to begin an elective for the fellows with their urogynecology faculty in July and August of 2011. This effectively increases the number of attending subspecialists to seven from whom the fellows will learn during their clinical training.
- The division is contributing ideas to the Medicare Innovation Center under the leadership of Dr. Goldberg. This is a project sponsored by the Centers for Medicare & Medicaid Services (CMS), which seeks critical input from selected institutions to deliver more efficient and cost-effective services to patients. In this case, treatment paradigms are being developed for women with highly prevalent and potentially debilitating conditions related to pelvic pain and prolapse.

Perinatal Family Support Center

2011 Highlights

- Listed below are the top five reasons for initial referral to PFSC by proportion:

Reason	Percentage
Mental health issues	**30.2%**
High-risk pregnancy	**11.4%**
Prior or current pregnancy loss	**9.3%**
Unanticipated ISCU admission	**8.7%**
Teen pregnancy	**7.7%**

- Total referral volume in 2011 grew year-over-year for the fifth consecutive year.
- Sixty-five antenatal consults with Neonatalogy were performed in anticipation of support, guidance and resource needs of obstetric patients whose unborn child is diagnosed with a fetal anomaly or potentially disabling issue.

Nancy Eschbach, MSW, LCSW
Program Director

Nancy Eschbach, MSW, LCSW
Program Director

Clinical Mission and Services

The Perinatal Family Support Center (PFSC) provides a wide array of social and referral services to women and their families experiencing challenges related to pregnancy, birth, prematurity or perinatal loss. Patients and their families at both NorthShore Evanston and Highland Park Hospitals' obstetrical and pediatric units are able to access services of the PFSC.

2011 Achievements

- A total of 1,758 families accessed the PFSC service in 2011, which includes 284 patients and families at NorthShore Highland Park Hospital. The total also includes 150 teens, 88 pediatric patients and 48 gynecologic patients.
- More than 400 families or patients were provided with assessment-based intervention with the assistance of the Associate Board Emergency Family Fund.
- More than 5,600 books were distributed through the Child and Adolescent Clinic to promote literacy through the Reach Out and Read program.
- The Perinatal Comfort Care program continued to provide services to families whose unborn child was diagnosed with a life-limiting condition.
- The PFSC partnered with the Perinatal Depression Program and the Psychiatry Department in developing a psychiatric clinic for the underserved pregnant patients cared for at NorthShore.
- More than 200 families participated in sibling tours at both hospitals.
- More than 150 individuals participated in one of the monthly Perinatal Loss groups.
- More than 30 NorthShore patients and families benefited from holiday gifts.
- The PFSC continues to host and facilitate the Leadership Consortium for Pregnant and Parenting Teens.
- The PFSC hosted 10 multidisciplinary Lunch-and-Learn seminars open to all care providers of women's health services.
- A continued partnership with North Shore Junior League and the PFSC enabled an education and advocacy "baby shower" for 20 low-income pregnant woman and their guests.
- The PFSC has developed an ongoing, well-respected internship site for University of Chicago, Loyola University, University of Illinois-Chicago, Northwestern University and Dominican University students completing their second year of master's-level studies in social work and counseling.
- PFSC staff members have served as invited presenters at an array of local and national conferences.
- 54 teens participated in preparation for parenting groups and educational activities.
- PFSC staff members provide leadership to a multitude of committees, including the Child Protection Committee and the Domestic Violence Committee.

Perinatal Depression Program

2011 Highlights

- Dr. Kim presented research findings at the 2011 annual meeting of the American Psychological Association. She was also invited to give the keynote address at the March of Dimes 36th Annual Perinatal Nursing Conference.
- Laura La Porte, LCSW, presented research findings at both the 2011 annual meetings of the American Congress of Obstetricians and Gynecologists and the Central Association of Obstetricians and Gynecologists.
- Through a partnership with community agency The Family Room and funding by the Evanston Community Foundation, free support groups were developed and offered for women experiencing perinatal mood and anxiety disorders and for low-income women adjusting to new motherhood.
- The 866-364-MOMS hotline welcomed eight new mental health staff to help accommodate the significant growth in call volume the hotline has experienced over the last two years.

Jo Kim, PhD
Program Director and Clinical Assistant Professor

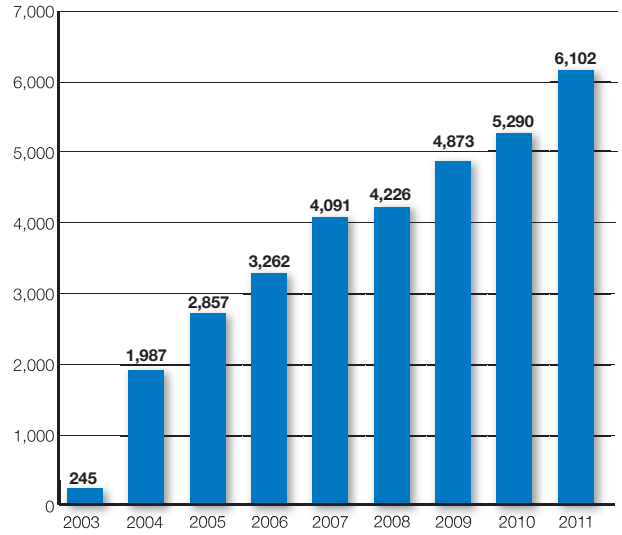
Clinical Mission and Services

Women are at greatly increased risk for clinical depression and its potentially devastating outcomes during the perinatal period. The Perinatal Depression Program provides proactive universal screening for depression in both the pre- and postnatal periods using the Edinburgh Postnatal Depression Scale. The program also provides an immediate, live telephone response to at-risk women by a trained and licensed professional 24/7/365 for information, advice or referral to an appropriate mental health provider.

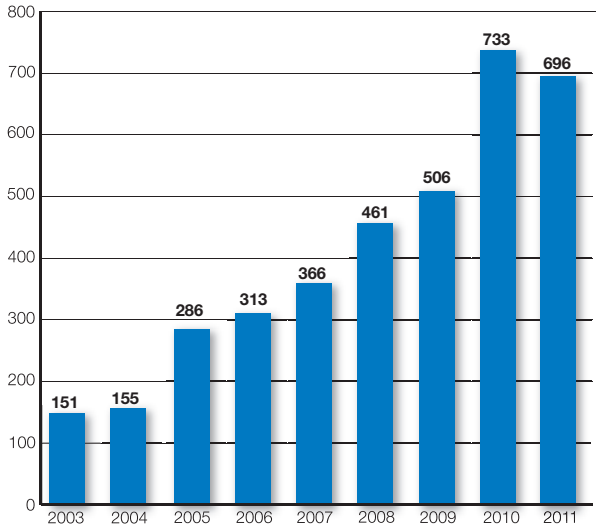
2011 Achievements

- A record number of women (6,102) were screened in 2011 resulting in identification of 516 women at risk. The 866-364-MOMS hotline served 696 callers, 29 of whom were referred for acute risk—suicidal ideation or psychosis. (See graphs titled “Depression Screen Volume” and “Hotline Call Volume.”)
- 67% of at-risk women were linked with mental health and community resources as indicated.
- For the first time in the program’s history, depression screening reached a 100 percent rate for several individual obstetricians/nurse midwives.
- A previous pilot project to extend postpartum depression screening into the pediatric care setting was expanded to an additional pediatric practice, with further rollout slated for 2012.

Depression Screen Volume



Hotline Call Volume



Obstetrics Coverage Program

Richard Adis, MD
Vice Chair and Program Director, NorthShore Highland Park Hospital

Loren Hutter, MD
Program Director, NorthShore Evanston Hospital and Clinical Associate Professor

Clinical Mission and Services

The Department of Obstetrics and Gynecology has an unwavering commitment to safe and adequate on-site physician coverage for obstetrical patients. The Obstetrics Coverage Program at both of the NorthShore Labor and Delivery units has robust schedules to ensure that physicians are available for patients regardless of their ability to pay for care and to simultaneously provide outstanding oversight and teaching for our medical trainees.

2011 Achievements

- In 2011, the NorthShore Obstetrics Coverage Program continued to meet the obstetric needs of the under-resourced women in our community. More women with financial need presented requiring obstetrical care than in the past. The program met this considerable community need and is ready to continue these service levels.
- More than 40 NorthShore physicians provided time and services to the program and fully supported the shared academic objectives of NorthShore and the University of Chicago Pritzker School of Medicine.
- The NorthShore Evanston Hospital Obstetrics Coverage Program has fully developed the multidisciplinary model for comprehensive clinical coverage. The redesigned staffing model uses mid-level providers such as certified nurse midwives and associate resource physicians to provide care and supervision to obstetrical and gynecological patients.

Loren Hutter, MD, in his role as Director of the Obstetrics Coverage Program at NorthShore Evanston Hospital shares his expertise with medical students and staff.

Undergraduate Medical Education

H. Jacob Saleh, MD, Site Director and Associate Professor oversees medical student simulation activities.

H. Jacob Saleh, MD
Site Director and Clinical Associate Professor

In collaboration with the University of Chicago Pritzker School of Medicine, the NorthShore faculty is committed to ongoing excellence in undergraduate medical education. Students complete learning objectives in health care for women in an atmosphere of discovery.

In addition to the core third-year rotation, fourth-year students are offered unique month-long electives in general and high-risk obstetrics. Electives are expanding to include subspecialty experiences in Urogynecology, Gynecologic Oncology, Fertility and Pelvic Pain. Increasing numbers of senior students with a strong interest in postgraduate training from medical schools across the U.S. and international programs are seeking placement at NorthShore.

2011 Achievements

- A significant enhancement to the undergraduate education program for our third-year students was the expansion of the obstetrics and gynecology clinical rotation to six weeks, starting in our third year of partnership with the University of Chicago Pritzker School of Medicine. The addition of two weeks has translated into measurable improvement in student performance as well as satisfaction with the overall learning experience. The added time has also allowed us to expand the lecture program and take advantage of our new NorthShore Center for Simulation and Innovation (NCSI) facility, located at Evanston Hospital. The OB/GYN orientation for students assigned to NorthShore as well as Hyde Park now begins with a full day of basic simulation training at NorthShore. A second day has been added to cover more advanced simulations (i.e., postpartum hemorrhage, advanced suturing techniques).
- Our department was the first to host an Objective Structured Clinical Examination (OSCE) at NorthShore. The OSCE is designed to test clinical skills and competencies such as focused clinical assessment and acute patient care, communication, data research and interpretation, and professionalism. Through the tireless efforts of Michael Hughey, MD, and Peggy Ochoa, RNC-OB, as well as dedicated core faculty, we were able to go from concept to a full eight-station exam in record time with the first exam held on September 15, 2011. The Hyde Park students travel to Evanston for the exam, which is held at the end of each rotation.
- The students continue to recognize our faculty for their exceptional efforts. This year's Holden K. Farrar, Jr. Teacher and Lecturer of the Year awards went to Loren Hutter, MD, and Michael Hughey, MD, respectively. The Pritzker Pin for Teaching Excellence went to Armin Drachler, MD, Carol Ellman, MD, Michael Hughey, MD, Loren Hutter, MD, Jeremy Miller, MD, Fabio Ortega, MD, Gustavo Rodriguez, MD, and Jacob Saleh, MD. Dr. Hutter deserves especially high praise for the university-wide recognition of being selected this year's Alpha Omega Alpha Volunteer Clinical Faculty Honoree. We congratulate Dr. Hutter for having "demonstrated excellence as a physician, displayed eagerness to teach and modeled humanism in patient care."

Michael Hughey, MD, checks how effectively the Pritzker students perform laceration repairs. The "water tight" seal he observes is a credit to both the teacher and the student surgeon.

Collaboration and Innovation Enhances Third-Year Medical Student Rotation

When the University of Chicago Pritzker Steering Committee granted a 50 percent increase in the length of our third-year medical student rotation, our department collaborated with colleagues at the University of Chicago Pritzker School of Medicine to meet the challenge in several innovative ways.

Under the leadership of Sabrina Holmquist, MD, Program Director of Medical Student Education, Hani Saleh, MD, and Michael Hughey, MD, infused the schedule with multiple new learning opportunities.

Dr. Saleh organized mentor-based outpatient rotations for the students in concert with our faculty where students experienced office gynecology and outpatient obstetrics in a variety of clinical settings. Meanwhile, Dr. Hughey revolutionized the introduction of our specialty to the students by offering a basic and an advanced Skills Lab using simulation strategies to teach surgical preparation, knot tying, and pelvic and PAP exams, as well as electronic fetal monitoring. Dr. Hughey also capped off the clerkship experience with an objective, structured, clinical examination (OSCE). The OSCE is the first of its kind to be offered on the NorthShore campus and is an integral part of medical student education and evaluation.

NorthShore's Skills Lab was so popular that the Pritzker students rotating at University of Chicago Medical Center chose to come to NorthShore for this learning experience, while the OSCE's success will undoubtedly pave the way for similar offerings in the other clinical clerkships.

Graduate Medical Education

Beth Plunkett, MD, MPH
Site Director and Clinical Assistant Professor

Sangeeta Senapati, MD, MS
Associate Site Director and Clinical Assistant Professor

In collaboration with the NorthShore academic affiliates, all 26 of the University of Chicago Pritzker School of Medicine OB-GYN residents benefit from learning opportunities at NorthShore over their four-year training program. In recognition of the strength of the resident training program in partnership with the University of Chicago Pritzker School of Medicine, the American College of Graduate Medical Education had granted expansion of the program to a total of 28 with seven residents per class. As a result, we were able to expand our program from 24 to 26 residents in the 2011–2012 academic year.

Throughout the academic year, three residents are assigned to gynecology service; one is assigned to a minimally invasive surgery service two are assigned to obstetric service, and two participate in night float labor and delivery rotation.

To provide outpatient experience, each resident participates in a weekly Continuity Clinic at NorthShore. Other ambulatory learning opportunities are available to the residents, including participation in ultrasound, subspecialty, and general obstetric and gynecologic offices. Many residents also partner with NorthShore to participate in the rich research environment here. In addition to the University of Chicago Pritzker School of Medicine, the Department of Obstetrics and Gynecology has the opportunity to work with Saint Francis Hospital's Obstetrics and Gynecology residency training program with at least one resident on site year-round.

The NorthShore program provides a robust clinical experience, as well as an emphasis on the practice of academic medicine, innovative educational advancements and multiple research opportunities.

Ian Grable, MD, MPH, provides learning opportunities for resident physicians.

2011 Achievements

- The University of Chicago residents report a rich training environment at NorthShore, including low-risk and high-risk obstetrics. They participate in excellent opportunities in amniocentesis, operative vaginal delivery and breech delivery. Their gynecologic training includes a robust surgical case mix with many opportunities for complex, nonroutine cases. Minimally invasive cases are abundant and have formed the basis for the new minimally invasive surgery rotation introduced in the 2011–2012 academic year.
- The NorthShore Evanston Hospital Outpatient Department continues to play a critical educational role in the outpatient environment, providing all of the University of Chicago residents with their Continuity Clinic experience. NorthShore's dedication to this underserved population accomplishes the dual goals of meeting the medical needs of these patients while supporting the ambulatory education of our residents.
- With the opening of the NorthShore Center for Simulation and Innovation (NCSI) in 2011, simulation training has played an even greater role in resident education. Under the leadership of Ian Grable, MD, MPH, a NorthShore Maternal-Fetal Medicine subspecialist and leader in the field of patient safety, residents have participated in weekly simulation activities to further their skills in such diverse areas as complex deliveries, surgical skills, team building and patient counseling in medically complex situations. In addition, Dr. Grable provided an intensive training course for incoming Obstetrics and Gynecology and Family Medicine residents to introduce essential skills in a relaxed learning environment. In addition, faculty members Sangeeta Senapati, MD, MS, Frank Tu, MD, MPH, and Howard Topel, MD—accomplished minimally invasive surgeons—continued to improve their program at the NorthShore Skokie Hospital simulation center to further develop the residents' laparoscopic skills. A brief didactic session precedes a hands-on session for skill drills that include tissue manipulation, laparoscopic suturing and the use of various electrosurgical devices. The residents report that these experiences greatly enhance both their confidence and their knowledge in these important areas.
- Jeremy Miller, MD was awarded the Golden Apple teaching award for his remarkable contribution to resident teaching in 2011.
- The University of Chicago Obstetrics and Gynecology residents made impressive contributions to our field in 2011 and received recognition from the University of Chicago Pritzker School of Medicine. Melissa Wong, MD, class of 2012, was awarded the Hilger Perry Jenkins Award for her excellence in academic and patient-oriented service. Samantha Pace, MD, class of 2013, was awarded the 2011 Gold Humanism Award in recognition for her excellence in clinical care. In addition, several residents received Golden Apple Medical Student Teaching Awards for their contribution to teaching. The 2010–2011 recipients were Emily Hill, MD (class of 2011), Melissa Wong, MD (class of 2012), Laura Douglass, MD (class of 2013), Neha Bhardwaj, MD, and Nidhee Mathur, MD (class of 2014).

Fellowship Programs

Sylvia Botros, MD, MS *Program Director and Clinical Assistant Professor*

Jean Hurteau, MD *Site Director and Clinical Professor*

Richard Silver, MD *Program Director* and *Clinical Professor*

Gynecologic Oncology

The NorthShore Division of Gynecologic Oncology has an approved fellowship training program with the University of Chicago certified by the American Board of Obstetrics and Gynecology. The combined fellowships program was fully implemented in the 2011–2012 academic year. The program consists of one research year followed by two clinical years divided between the two campuses.

The fellows are introduced to basic science research in their first academic year. In the second and third years, the fellows manage pre-invasive and complex invasive cancers of the gynecological tract under the supervision of seven attendings between the two campuses. They are exposed to clinical trials research as part of their training program. They are also involved in the latest phase I, II and III clinical trials being offered to gynecologic oncology patients.

Urogynecology

The NorthShore Division of Urogynecology supports the advanced urogynecologic training for three fellowship positions certified by the American Board of Obstetrics and Gynecology. 2011 marked the tenth consecutive year the NorthShore program matched with top-tier applicants. The program successfully incorporated clinical rotations at the University of Chicago and completed the reaccreditation site visit in 2011. Sylvia Botros, MD, MS, was approved as the new Program Director.

Maternal-Fetal Medicine

This past year marked the beginning of a new integrated Maternal-Fetal Medicine fellowship between the Divisions of Maternal-Fetal Medicine at NorthShore and at the University of Chicago. The American Board of Obstetrics and Gynecology approved the program to train three fellows to become subspecialists and consultants in the care of women with high-risk pregnancies. Under the guidance of Dr. Richard Silver, Program Director, this fellowship will provide extensive experience in the diagnosis, treatment and management of medical, surgical and obstetrical complications of pregnancy. In addition, the fellows will be trained to develop proficiency and expertise in ultrasound and antenatal diagnosis, including procedural skills such as amniocentesis and chorionic villus sampling.

The fellowship includes 18 months of protected research time for the fellow to develop a thesis that will be defended at the end of his or her training. Mentorship in clinical, translational and basic science research as well as graduate-level courses in statistics and epidemiology provide the framework for the fellows to launch an academic career and advance the field of maternal-fetal medicine. In less than six months, our three fellows have already had four abstracts accepted for presentation at prestigious national meetings. Current fields of research by our fellows include the following:

Emmet Hirsch, MD, Vice Chair for Faculty Development and Clinical Practice, Division Director and Clinical Professor, hosts Maternal-Fetal Medicine fellows in his basic science laboratory program.

- Evaluation of fetal cardiovascular overgrowth in diabetic patients as well as its possible role in unexplained stillbirth
- Incidence of twin-twin transfusion syndrome and other obstetrical complications in monochorionic and dichorionic triplet pregnancies
- Role of high-fidelity simulation experiences in improving resident education and procedural competence
- Association between antenatal depressive symptoms and preterm birth
- Harnessing the electronic health record to actively manage preconception care and improve pregnancy outcomes
- Relationship between perinatal depression and postpartum weight retention
- Association of surfactant protein—a signaling of toll-like receptors on preterm labor

The program also incorporates numerous didactic sessions at both campuses, including multidisciplinary conferences, a weekly fellow lecture series and simulation lab experience.

We are pleased to have the following three fellows in our program:

- Anna Gonzalez, MD—University of Texas Southwestern in Dallas, Texas
- Ankit Shah, MD—North Shore Long Island Jewish Health System in New York
- Heather Straub, MD—University of Texas in Houston, Texas

2011 Grants and Research Support

The NorthShore Department of Obstetrics and Gynecology researchers received more than $1.6 million in support for their work in 2011 from National Institutes of Health, industry and institutional sources. Their multi-year aggregated funding commitments total more than $5.6 million.

Mara Dinsmoor, MD, MPH

Lorraine Endres, MD

Kevin Hellman, PhD

Emmet Hirsch, MD

Jean Hurteau, MD

Jo Kim, PhD

Mark Neerhof, DO

Beth Plunkett, MD, MPH

Gustavo Rodriguez, MD

Peter Sand, MD

Frank Tu, MD, MPH

Gustavo Rodriguez, MD, Division Director and Clinical Associate Professor, is studying the effect of vitamin D in combination with anti-inflammatory agents and progesterone to reduce the risk of developing ovarian and endometrial cancer.

2011 Publications

Abramov, Y., Webb, A., **Botros, S.**, **Goldberg, R.**, Ameer, G., **Sand, P.** (2011) The effect of bilateral oophorectomy on wound healing of the rabbit vagina. *Fertility and Sterility* 95(4):1467-70.

Harper, M., Zheng, S., Thom, E., Klebanoff, M., Thorp, J., Sorokin, Y., Varner, M., Iams, J., **Dinsmoor, M.**, Mercer, B., Rouse, D., Ramin, S., Anderson, G., Eunice Kennedy Shriver National Institute of Child Health and Human Development Maternal-Fetal Medicine Units Network. (2011) Cytokine gene polymorphisms and length of gestation. *Obstetrics and Gynecology* 117:125-130.

Bakhali, E., **Gafni-Kane, A.**, **Botros, S.**, Tincello, D. (2011) Factors influencing participation by women in the USA and UK in urogynecology research: The bladder clinic questionnaire study. *Neurourology and Urodynamics* 30(8):1462–1466.

Gafni-Kane, A., **Goldberg, R.**, Spitz, J., **Sand, P.** (2011) Extrasphincteric perianal fistulae after sacrospinous fixation for apical prolapse. *Obstetrics and Gynecolology* 117(2 Pt 2):438-40.

Gafni-Kane, A., **Sand, P.** (2011) Foreign-body granuloma after injection of calcium hydroxylapatite for type III stress urinary incontinence. *Obstetrics and Gynecology* 118(2 Pt 2):418-20.

Grable, I., **Ochoa, P.** (2011) Simulations in Obstetrics. *Disease-a-Month* 57(12):763-774.

Hirsch, E., Lim, C., Dobrez, D., **Adams, M.**, Noble, W. (2011) Meteorological factors and timing of the initiating event of human parturition. *International Journal of Biometeorology* 55:265-272.

Tsai, H., Hong, X., Chen, J., Liu, X., Pearson, C., Ortiz, K., **Hirsch, E.**, Heffner, L., Weeks, D., Zuckerman, B., Wang, X. (2011) The role of African ancestry and gene-environment interactions in predicting preterm birth. *Obstetrics and Gynecology* 118(5):1081-1089.

Usha, L., Sill, M., Darcy, K., Benbrook, D., **Hurteau, J.**, Michelin, D., Mannel, R., Hanjani, P., De Geest, K., Godwin, A. (2011) A Gynecologic Oncology Group phase II trial of the protein kinase C-beta inhibitor, enzastaurin and evaluation of markers with potential predictive and prognostic value in persistent or recurrent epithelial ovarian and primary peritoneal malignancies. *Gynecologic Oncology* 121(3):455–461.

Jain, P., **Jirschele, K.**, **Botros, S.**, Latthe, P. (2011) Effectiveness of midurethral slings in mixed urinary incontinence: A systematic review and meta-analysis. *International Urogynecology Journal and Pelvic Floor Dysfunction* 22(8):923-32.

Norian, J., **Feinberg, E.**, DeCherney, A., Armstrong, A., (2011) Gonadal Dysfunction. *DeVita, Hellman and Rosenberg's Cancer: Principles & Practice of Oncology*, 9th Edition, Philadelphia Pa. Lippincott Williams and Wilkins.

Jirschele, K., Nguyen, A., **Sand, P.**, **Botros, S.** (2011) Two unusual presentations of bladder diverticula. *Obstetrics and Gynecology* 118(2 Pt 2):415-7.

Gonzalez Bosquet, J., Peedicayil, A., Maguire, J., Chien, J., **Rodriguez, G.**, Whitaker, R., Petitte, J., Anderson, K., Barnes, H., Shridhar, V., Cliby, W. (2011) Comparison of gene expression patterns between avian and human ovarian cancers. *Gynecologic Oncology* 120(2):256-64.

Carver, D., Barnes, H., Anderson, K., Petitte, J., Whitaker, R., Berchuck, A., **Rodriguez, G.** (2011) Reduction of ovarian and oviductal cancers in calorie-restricted laying chickens. *Cancer Prevention Research* 4(4):562-7.

Antoniou, A., **Rodriguez, G.**, et al. (2011) Common alleles at 6q25.1 and 1p11.2 are associated with breast cancer risk for BRCA1 and BRCA2 mutation carriers. *Human Molecular Genetics* 20(16):3304-3321.

Nguyen, H., Ivanova, V., Kavandi, L., **Rodriguez, G.**, Maxwell, G., and Syed, V. (2011) Progesterone and 1,25-Dihydroxyvitamin D3 Inhibit Endometrial Cancer Cell Growth by Upregulating Semaphorin 3B and Semaphorin 3F. *Molecular Cancer Research* 1479.

Skates, S., **Rodriguez, G.**, et al. (2011) Large prospective study of ovarian cancer screening in high-risk women: CA125 cut-point defined by menopausal status. *Cancer Prevention Research* 4(9):1401-8.

Cox, D., **Rodriguez, G.**, et al. (2011) Common variants of the BRCA1 wild-type allele modify the risk of breast cancer in BRCA1 mutation carriers. *Human Molecular Genetics* 20(23):4732-47.

Dmochowski, R., Newman, D., **Sand, P.**, Rudy, D., Caramelli, K., Thomas, H., Hoel, G. (2011) Pharmacokinetics of oxybutynin chloride topical gel: Effects of application site, showering, sunscreen, and person-to-person transference. *Clinical Drug Investigation* 31(8):559-71.

Nguyen, A., Aschkenazi, S., **Sand, P.**, Du, H., Botros, S., Gamble, T., Kuo, R., Goldberg, R. (2011) Non-genetic factors associated with stress urinary incontinence. *Obstetrics and Gynecology* 117(2 Pt 1):251-5.

Sand, P., MacDiarmid, S., Thomas, H., Caramelli, K., Hoel, G. (2011) Effect of baseline symptom severity on oxybutynin chloride topical gel (otg)-mediated improvement in continence. *Open Access Journal of Urology* 2011(3):145-50.

(continued)

2011 Publications (continued)

Haylen, B., Freeman, R., Swift, S., Cosson, M., Davila, G., Deprest, J., Dwyer, P., Fatton, B., Kocjancic, E., Lee, J., Maher, C., Rizk, D., Petri, E., **Sand, P.**, Schaer, G., Webb, R. (2011) An International Urogynecological Association (IUGA)/International Continence Society (ICS) joint terminology and classification of the complications related directly to the insertion of prostheses (meshes, implants, tapes) and grafts in female pelvic floor surgery. *Neurourology and Urodynamics* 30(1):2-12.

Haylen, B., Freeman, R., Swift, S., Cosson, M., Davila, G., Deprest, J., Dwyer, P., Fatton, B., Kocjancic, E., Lee, J., Maher, C., Rizk, D., Petri, E., **Sand, P.**, Schaer, G., Webb, R. (2011) An International Urogynecological Association (IUGA)/International Continence Society (ICS) joint terminology and classification of the complications related directly to the insertion of prostheses (meshes, implants, tapes) and grafts in female pelvic floor surgery. *International Urogynecology Journal* 22(1):3-15.

Scarpero, H., **Sand, P.**, Kelleher, C., Berriman, S., Guan, Z., Bavendam, T., Padmanabhan-Aiyer, L., Carlsson, M. (2011) Long-term safety, tolerability, and efficacy of fesoterodine treatment in men and women with overactive bladder symptoms. *Current Medical Research and Opinion* 27(5):921–930.

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Bauer, C., Victorson, D., Rosenbloom, S., Barocas, J., **Silver, R.** (2011) Alleviating distress during antepartum hospitalization: A randomized controlled trial of music and recreation therapy. *Journal of Women's Health* 19:523-31.

Lipskind, S., Loanzon, S., **Simi, E.**, **Ouyang, D.** (2011) Hyperammonemic coma in an ornithine transcarbamylase mutation carrier following antepartum corticosteroids. *Journal of Perinatology* 31(10):682-84.

Refuerzo, J., **Straub, H.**, Murphy, R., Salter, L., Ramin, S., Blackwell, S. (2011) Computerized physician order entry reduces medication turnaround time of labor induction agents. *American Journal of Perinatology* 28(4):253-8.

Tu, F., **Hellman, K.**, Backonja, M. (2011) Gynecologic management of neuropathic pain. *American Journal of Obstetrics and Gynecology* 205(5):435-43.

2011 Presentations and Abstracts

Agrawal, V., **Hirsch, E.** (2011) Surfactant protein (SP)-A Suppresses Inflammation-Induced Preterm Delivery and Inflammatory Responses Via Toll-Like Receptor 2. Society for Gynecologic Investigation 58th Annual Meeting, Miami Beach, Florida.

Agrawal, V., Jilling, T., **Hirsch, E.** (2011) Interaction Between Platelet Activating Factor (PAF) and Toll-Like Receptor (TLR) Signaling Pathways: An Important Role in the Pathogenesis of Bacterially-Induced Preterm Labor? Society for Gynecologic Investigation 58th Annual Meeting, Miami Beach, Florida.

Bernardi, L., **Plunkett, B.**, Stephenson, M. (2011) Cost Analysis of Chromosome Testing of the Second Miscarriage Versus Evaluation for Recurrent Early Pregnancy Loss. American Society for Reproductive Medicine 67th Annual Meeting, Orlando, Florida.

Botros, S. (2010) Perineal Lacerations. International Urogynecological Association Exchange Program, Astana, Kazakhstan.

Botros, S. (2010) How Evidence-Based Medicine Has Changed Practice Patterns. International Urogynecological Association Exchange Program, Astana, Kazakhstan.

Botros, S. (2010) How to Read a Scientific Article. International Urogynecological Association Exchange Program, Astana, Kazakhstan.

Collier, A., **Senapati, S.**, **Roybal, A.**, Bruksch, K., **Westling, A.**, **Pozolo, K.**, **Tu, F.** (2011) Association of Parity on Pain Impact and Quality of Life in Women With Chronic Pelvic Pain. AAGL 40th Global Congress of Minimally Invasive Gynecology, Hollywood, Florida.

Conyac, T., **Endres, L.**, **Adams, M.**, **Dinsmoor, M.** (2011) Does a Fetal Abdominal Circumference Size of 5cm or More Larger Than Head Circumference Predict a Shoulder Dystocia? Central Association of Obstetricians and Gynecologists 78th Annual Meeting, Nassau, Bahamas.

Endres, L., **Geibel, L.** (2011) Determining the Uptake and Impact of Array-Based Comparative Genomic Hybridization in Prenatal Diagnostic Evaluation. Society for Maternal-Fetal Medicine 31st Annual Meeting, San Francisco, California.

Eschbach, N. (2011) Adoption and Gestational Surrogacy. NorthShore University HealthSystem Maternal-Fetal Health Lunch and Learn, Evanston, Illinois.

2011 Presentations and Abstracts (continued)

Eschbach, N. (2010) Understanding Department of Children and Family Services. NorthShore University HealthSystem Infant Special Care Unit Seminar, Evanston, Illinois.

Eschbach, N. (2010) Perplexed About Paternity? NorthShore University HealthSystem Infant Special Care Unit Seminar, Evanston, Illinois.

Eschbach, N., Goldin, N. (2011) Overview of the Perinatal Family Support Center and Perinatal Loss. NorthShore University HealthSystem MOMS Conference, Evanston, Illinois.

Feinberg, E., Beltsos, A., **Marut, E.**, Nicoloau, E., Uhler, M., (2011) Endometrin as luteal support in assisted reproduction. American Society for Reproductive Medicine Meeting, Orlando, Florida.

Filipovich, Y., **Agrawal, V.**, **Hirsch, E.** (2011) Intraperitoneal Surfactant Protein A (SP-A) Augments LPS-Induced Murine Preterm Delivery. Society for Gynecologic Investigation 58th Annual Meeting, Miami Beach, Florida.

Filipovich, Y., **Hahn, S.**, **Hirsch, E.** (2011) Evidence That Bacterially Induced Preterm Labor in the Mouse is a Process Determined by the Mother Rather Than the Fetus. Society for Gynecologic Investigation 58th Annual Meeting, Miami Beach, Florida.

Goldberg, R. (2011) Mesh Repairs for Prolapse. Southeast Association of Obstetricians/Gynecologists/ACOG, Charlottesville, Virginia.

Goldin, N. (2011) Perinatal Loss. Northwestern Perinatal Network Seminar, Skokie, Illinois.

Gafni-Kane, A., **Goldberg, R.**, **Sand, P.**, **Botros, S.** (2011) Evaluation of the Clinical Utility of the PFDI20 Among Women in the General Population. The 36th Annual Meeting of the International Urogynecological Association, Lisbon, Portugal.

Gafni-Kane, A., **Goldberg, R.**, **Sand, P.**, **Botros, S.** (2011) Sensitivity of the PFDI-20 to the Presence or Absence of Anal Incontinence in the General Population. The 41st Annual Meeting of the International Continence Society, Glasgow, Scotland.

Gafni-Kane, A., **Goldberg, R.**, **Sand, P.**, **Botros, S.** (2011) Evaluation of the Clinical Utility of the PFDI-20 Among Women in the General Population. The 41st Annual Meeting of the International Continence Society, Glasgow, Scotland.

Gafni-Kane, A., **Goldberg, R.** et al. (2011) Surgical video, "Mini-ASC: sacrocolpopexy by minilaparotomy." The 37th Annual Society of Gynecologic Surgeons Scientific Meeting, San Antonio, Texas.

Goldberg, R. (2011) Choosing the Right Sling—The US Experience. Japanese Society of Female Pelvic Floor Medicine, Yokahama, Japan.

Goldberg, R. (2011) Update on Mesh in Vaginal Prolapse Surgery. Japanese Society of Female Pelvic Floor Medicine, Yokahama, Japan.

Goldberg, R. (2011) Effects of Pregnancy and Childbirth on Pelvic Floor Dysfunction. American Urogynecologic Society Female Pelvic Medicine for the Office-Based Provider Course, Chicago, Illinois.

Goldberg, R. (2011) The Array of Surgical Options for Prolapse—What Any Provider Should Know. American Urogynecologic Society Female Pelvic Medicine for the Office-Based Provider Course, Chicago, Illinois.

Goldberg, R. (2011) Unaugmented Anterior Compartment Repairs. The University of Chicago Advances in Urogynecology and Reconstructive Pelvic Surgery 20th Annual Conference, Indian Wells, California.

Goldberg, R. (2011) Uterine Preservation During Urogynecologic Surgery: You Might Want That Uterus. The University of Chicago Advances in Urogynecology and Reconstructive Pelvic Surgery 20th Annual Conference, Indian Wells, California.

Goldberg, R. (2011) Office Evaluation of Incontinence and Prolapse. The University of Chicago Advances in Urogynecology and Reconstructive Pelvic Surgery 20th Annual Conference, Indian Wells, California.

Goldberg, R. (2011) The Effect of Pregnancy and Delivery on the Lower Urinary Tract. The University of Chicago Advances in Urogynecology and Reconstructive Pelvic Surgery 20th Annual Conference, Indian Wells, California.

Goldberg, R. (2011) Neuromodulation and Pelvic Floor Stimulation. The University of Chicago Advances in Urogynecology and Reconstructive Pelvic Surgery 20th Annual Conference, Indian Wells, California.

Gonzalez, A., **Ouyang, D.**, **MacGregor, S.**, **Silver, R.** (2011) Estimate of the Incidence of Twin-Twin Transfusion Syndrome in Monochorionic and Dichorionic Triplets. Central Association of Obstetricians and Gynecologists 78th Annual Meeting, Nassau, Bahamas.

Grable, I., Morgan, G., **Plunkett, B.** (2011) Obstetric Hemorrhage Simulation Program Improves Resident Confidence. Association of Professors of Gynecology and Obstetrics Annual Meeting, San Antonio, Texas.

(continued)

2011 Presentations and Abstracts (continued)

Healy, M. (2011) Supporting Patients with Diabetes and Their Families. NorthShore University HealthSystem, Evanston, Illinois.

Hellman, K., Carrow, J., Sandwick, V., **Yu, P.**, Edelmuth, A., Segel, S., **Tu, F.** (2011) Deciphering the role of uterine contractility and blood perfusion in uterine pain. International Pelvic Pain Society Annual Fall Meeting, Las Vegas, Nevada.

Hellman, K., **Yu, P.**, Segel, C., **Tu, F.** (2011) A New Mouse Model Supports a Role for TRPV1 in Uterine Nociception. Society for Neuroscience 41st Annual Meeting, Washington, D.C.

Hill, E., Brady, W., Birrer, M., Darcy, K., McGuire, W., Hoskins, W., Warshal, D., Drake, R., Hanjani, P., **Hurteau, J.** (2011) Cyclin D1 and p57 Expression in Advanced Ovarian Epithelial Carcinoma: A GOG Study. American Society of Clinical Oncology Annual Meeting, Chicago, Illinois.

Hurteau, J. (2011) Biochemical Recurrent Ovarian Cancer: The Meaning of an Elevated CA 125. Gynecologic Cancer Foundation Survivors Course, Albuquerque, New Mexico.

Hurteau, J. (2011) Management of Ovarian Germ Cell Tumors. Wayne State University Department of Obstetrics and Gynecology Visiting Professor, Detroit, Michigan.

Hurteau, J. (2011) Management of the Pelvic Mass Found on Ultrasound. University of Chicago Department of Obstetrics and Gynecology Grand Rounds, Chicago, Illinois.

Hurteau, J. (2011) Design and Prioritization of Phase II/III Trials in Small Volume Disease Relapsed Ovarian Cancer Based on CA 125 Elevation. Gynecologic Oncology Group Ovarian Committee, San Diego, California.

Kim, J., **La Porte, L.**, **Silver, R.** (2011) The Unique Profile of Perinatal Women Referred for Emergent Psychiatric Assessment After Contacting a Hotline Staffed by Mental Health Professionals. American Psychological Association 119th Annual Meeting, Washington, D.C.

La Porte, L., **Kim, J.**, **Silver, R.** (2011) Patient Response to Phone Outreach After Scoring Positive on Edinburgh Postnatal Depression Scale. American College of Obstetrics and Gynecology 59th Annual Meeting, Washington, D.C.

La Porte, L., **Kim, J.**, **Adams, M.**, Du, H., **Silver, R.** (2011) Are Depression Screening Results Consistent Across Successive Pregnancies? Central Association for Obstetricians and Gynecologists 78th Annual Meeting, Nassau, Bahamas.

Mueller, M., **Vu, M.**, **Tomezsko, J.**, **Sand, P.** (2011) Postoperative Urinary Tract Infection in Women Following Midurethral Slings. American Urological Association Annual Meeting, Washington, D.C.

Facco, F., **Ouyang, D.**, Grobman, W., Kick, A., Stewart, N., **Adams, M.**, Zee, P. (2011) Trends in Sleep Disordered Breathing During Pregnancy Among High-Risk Women. Society for Maternal-Fetal Medicine 31st Annual Meeting, San Francisco, California.

Facco, F., **Ouyang, D.**, Grobman, W., Kick, A., Stewart, N., **Adams, M.**, Zee, P. (2011) How Should We Screen for Sleep Apnea in Pregnancy? Society for Maternal-Fetal Medicine 31st Annual Meeting, San Francisco, California.

Facco, F., **Ouyang, D.**, Grobman, W., Kick, A., Stewart, N., **Adams, M.**, Zee, P. (2011) Are Non-Obese Women at Increased Risk for Sleep Disordered Breathing During Pregnancy? Society for Maternal-Fetal Medicine 31st Annual Meeting, San Francisco, California.

Ernst, L., Huang, M., **Plunkett, B.**, Machut, K., Lossia, A., DeRegnier, R. (2011) Major and Minor Placental Pathology Contribute to Reduced 6-Month Cognitive Scores in Growth-Restricted Infants. Society for Pediatric Pathology Annual Meeting, San Antonio, Texas.

Plunkett, B., Morgan, G., Doll, J., Fitchev, P., Crawford, S. (2011) Maternal Adiposity Reduces Fetal Growth in a Leptin-Deficient Murine Model. Society for Maternal-Fetal Medicine 31st Annual Meeting, San Francisco, California.

Venkatasubramanian, P., Fitchev, P., Brendler, C., **Plunkett, B.**, Morgan, G., Cornwell, M., O'Leary, J., Pruitt, J., Stadnik, A., Burright, M., McGuire, M., Wyrwicz, A., Doll, J. (2011) Metabolic and Functional Analysis of Periprostatic Adipose Tissue From Prostate Cancer Patients. Prostate Cancer Foundation 18th Annual Scientific Retreat, Incline Village, Nevada.

Rodriguez, G. (2011) Hereditary Ovarian Cancer Syndromes: Opportunities for Risk Reduction. Northwestern University Ovarian Cancer Symposium, Chicago, Illinois.

Rodriguez, G. (2011) Development of Progestin and Vitamin D for the Chemoprevention of Ovarian and Endometrial Cancer. MD Anderson Felix Rutledge Society Meeting, Houston, Texas.

Rodriguez, G., (2011) Opportunities for the Pharmacologic Prevention of Ovarian Cancer. NorthShore University HealthSystem Auxiliary American Craft Exposition, Evanston, Illinois.

Sand, P. (2011) Etiology and Diagnosis of the Overactive Bladder. The University of Chicago Advances in Urogynecology and Reconstructive Pelvic Surgery 20th Annual Conference, Indian Wells, California.

Sand, P. (2011) Site-Specific or Old Fashioned Rectocele Repairs: Which is Best? The University of Chicago Advances in Urogynecology and Reconstructive Pelvic Surgery 20th Annual Conference, Indian Wells, California.

Sand, P. (2011) Biological Grafts in Reconstructive Surgery. The University of Chicago Advances in Urogynecology and Reconstructive Pelvic Surgery 20th Annual Conference, Indian Wells, California.

Sand, P. (2011) Treatment of Refractory Overactive Bladder. The University of Chicago Advances in Urogynecology and Reconstructive Pelvic Surgery 20th Annual Conference, Indian Wells, California.

Sand, P., MacDiarmid, S., Thomas, H. (2011) Does Symptom Severity Affect Oxybutynin Gel-Mediated Improvement of Continence in Women? The 59th Annual Meeting of the American College of Obstetricians and Gynecologists, Washington, D.C.

Sand, P., Shore, N., Elser, D., Peters, K. (2011) Evaluation of the Summit Trial: Insights into Percutaneous Tibial Nerve Stimulation. International Urogynecological Association 36th Annual Meeting, Lisbon, Portugal.

Sand, P., MacDiarmid, S., Thomas, H. (2011) Effects of Symptom Severity at Baseline on Oxybutynin Topical Gel-Mediated Improvement of Continence in Women. The Western Section of the American Urological Association 87th Annual Meeting, Vancouver, British Columbia, Canada.

Sand, P., Peters, K., Carrico, D. (2011) Summit Trial Outcomes: Clinical Insights into Percutaneous Tibial Nerve Stimulation. International Continence Society 41st Annual Meeting, Glasgow, Scotland.

Sand, P. (2011) Clinical Insights into Percutaneous Tibial Nerve Stimulation. American Urogynecology Society Annual Meeting, Providence, Rhode Island.

Sasso, K. (2011) Behavioral Therapy for Stress and Urge Incontinence. The University of Chicago Advances in Urogynecology and Reconstructive Pelvic Surgery 20th Annual Conference, Indian Wells, California.

Soto, M. (2011) Panel Participant. Adolescents and Immigration Issues. Latino Social Workers Conference, Chicago, Illinois.

Soto, M. (2011) How to Engage Teen Mothers in a Pediatric Setting. NorthShore University HealthSystem, Evanston, Illinois.

Soto, M. (2011) Clinical Interventions for Working With Pregnant and Parenting Teens Who Have Experienced a Perinatal Loss Within a Hospital Setting. NorthShore University HealthSystem Department of Obstetrics and Gynecology Grand Rounds, Evanston, Illinois.

Soto, M. (2011) Clinical Interventions for Working With Pregnant and Parenting Teens Who Have Experienced a Perinatal Loss Within a Hospital Setting. National Association of Perinatal Social Workers Building Bridges: The Heart of Perinatal Social Work Conference, San Francisco, California.

Soto, M. (2011) Adolescent Mental Health. Edgewood Middle School, Highland Park, Illinois.

Tomezsko, J. (2011) Diagnosis of Urodynamic Stress Incontinence. The University of Chicago Advances in Urogynecology and Reconstructive Pelvic Surgery 20th Annual Conference, Indian Wells, California.

Tomezsko, J. (2011) The Impact of Incontinence on Sexual Function. The University of Chicago Advances in Urogynecology and Reconstructive Pelvic Surgery 20th Annual Conference, Indian Wells, California.

Tomezsko, J. (2011) Abdominal Versus Vaginal Vault Suspension. The University of Chicago Advances in Urogynecology and Reconstructive Pelvic Surgery 20th Annual Conference, Indian Wells, California.

Tomezsko, J. (2011) Tension-Free (Retropubic) Midurethral Slings. The University of Chicago Advances in Urogynecology and Reconstructive Pelvic Surgery 20th Annual Conference, Indian Wells, California.

Tomezsko, J. (2011) Bladder Pain Syndrome/Interstitial Cystitis. The University of Chicago Advances in Urogynecology and Reconstructive Pelvic Surgery 20th Annual Conference, Indian Wells, California.

Tomezsko, T. (2011) What the Internist Should Know About Interstitial Cystitis/Painful Bladder Syndrome. NorthShore University Health System Department of Internal Medicine Grand Rounds, Evanston, Illinois.

Neville, C., Fitzgerald, C., Mallinson, T., Badillo, S., **Tu, F.**, Hynes, C. (2011) The Utility of Pelvic Floor Muscle Examination in Female Chronic Pelvic Pain. World Confederation for Physical Therapy Conference 2011, Amsterdam, Holland.

Tu, F., **Hellman, K.**, **Pozolo, K.**, **Blair, J**. (2011) Increased Visceral Pain Sensitivity in Painful Bladder Syndrome and Chronic Pelvic Pain. International Pelvic Pain Society Annual Fall Meeting, Las Vegas, Nevada.

Vu, M., Kostant, S., **Mueller, M.**, Stewart, N., Moen, M., **Sand, P.**, **Tomezsko, T.** (2011) The Use of Prophylactic Antibiotics for Prolonged Transurethral Catheterization After Midurethral Slings. Society of Gynecologic Surgeons 37th Annual Scientific Meeting, San Antonio, Texas.

Yu, P., Jilling, T., Segel, C., **Tu, F.**, **Hellman, K.** (2011) A Role for Platelet Activating Factor in Uterine Pain and Cross-Organ Sensitization. International Pelvic Pain Society Annual Fall Meeting, Las Vegas, Nevada.

2011 Growth

The department experienced important growth in new members in 2011. Each member plays a critical role in realizing our goals of outstanding clinical care, leading academics and recognized research.

Hayfaa Aldasoqi, CNM, MS, received her Master of Science in Nursing from University of Illinois at Chicago, College of Midwifery. She serves as a certified nurse midwife for the department at Evanston Hospital's Labor and Delivery unit.

Amy Bonfiglio, RN, MS, received her Master of Science in Nursing from DePaul University. She is serving as Research Nurse in the Department of Obstetrics and Gynecology.

Emily Borushko, MPH, received her Master of Public Health degree from Boston University. She is serving as Research Coordinator in the Division of Gynecological Pain and Minimally Invasive Surgery.

Rita Elue, RN, MS, MPH, received her Master of Science in Nursing from Lewis University and received her Master of Public Health degree from University of Illinois at Chicago. She is serving as RN Project Coordinator in the Department of Obstetrics and Gynecology.

Mara Evans, CNM, MS, received her Master of Science in Nursing from Yale University School of Nursing, Nurse Midwifery Program. She is currently in private practice with Drs. Gail Goldberg, Pamela Goodwin, H. Jacob Saleh and Gaye Koconis, CNM and Deborah Lesnick, CNM.

Jessica Hunn, MD, received her medical degree from University of Utah, School of Medicine. She completed her residency at the University of Utah Hospital. She is currently in the Gynecologic Oncology Fellowship program at the University of Chicago.

Kelly Jirschele, DO, received her Doctor of Osteopathy from Midwestern University, Chicago College of Osteopathic Medicine. She completed her residency at Saint Joseph Hospital. She is pursuing Urogynecologic fellowship training in the NorthShore program.

Alissa A. Johnston, MD, received her medical degree from New York Medical College. She completed her residency at University of Chicago. She is currently in practice in the NorthShore Medical Group with Drs. Michael Drachler, Emmet Hirsch, Michael Nagel, Fabio Ortega, Debra Schlossberg, Charla Simon and Kerry Swenson.

Andras Ladanyi, MD, PhD, received his medical and post-doctoral degrees from Semmelweis University, Budapest, Hungary. He completed his residency at the University of Chicago Medical Center. He is currently in the Gynecologic Oncology Fellowship program at the University of Chicago.

Christin Maier, MS, received her Master of Science in Genetic Counseling from Northwestern University. She is serving as Genetic Counselor in the Division of Maternal-Fetal Medicine.

Julia Resnick, MPH, received her Master of Public Health degree from Hebrew University. She is serving as Research Coordinator in the Division of Gynecological Pain and Minimally Invasive Surgery.

Ankit Shah, MD, received his medical degree from Drexel University College of Medicine. He completed his residency at North Shore University Hospital in New York. He is currently in the Maternal-Fetal Medicine Fellowship program at the University of Chicago.

Heather Straub, MD, received her medical degree from University of Colorado Health Sciences Center. She completed her residency at University of Texas Houston. She is currently in the Maternal-Fetal Medicine Fellowship program at the University of Chicago.

Maria Tejada, RN, CNM, MS, completed her Bachelor of Science and her Master of Science in Nursing from University of Illinois at Chicago, College of Midwifery. She serves as a certified nurse midwife for the department at Evanston Hospital's Labor and Delivery unit.

Allyson Westling, BA, received her Bachelor of Arts degree from Northwestern University. She is serving as Research Coordinator in the Division of Gynecological Pain and Minimally Invasive Surgery.

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12 Research

2011 Staff Directory

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A publication of the Department of Obstetrics and Gynecology

Editor: Deanna Hanks, Director, Women's Health
Photography: Jon Hillenbrand

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